BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

First and Part

Item No: **19**

Item Name: Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges -Ready mixed Cement concrete for Beams, Staircase and Roof with M-30 First Floor

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	First Floor Columns								
	Grid A - 1 to 21	19.00	0.60			0.30	3.15	10.77	
	Grid B- 1 to 21	12.00	0.60			0.30	3.15	6.80	
		7.00	0.30			0.30	3.15	1.98	
	Grid C- 1 to 21	11.00	0.60			0.30	3.15	6.24	
		7.00	0.30			0.30	3.15	1.98	
	Lift Column	4.00	0.45			0.20	3.15	1.13	
	Grid F- 1 to 21	18.00	0.60			0.30	3.15	10.21	
	Grid G- 11	1.00	0.45			0.20	3.15	0.28	
	Slab Area (30+27.8=57.8)	1.00	57.80			16.80	0.15	145.65	
		1.00	5.10			1.50	0.15	1.15	
	Deduction(-)								
	Staircase area	-2.00	1.50			3.50	0.15	-1.58	
		-1.00	1.50			2.60	0.15	-0.59	
	Duct	-1.00	0.55			1.25	0.15	-0.10	
	Lift	-1.00	1.80			2.14	0.15	-0.58	
	Beam								
	B-1,2,3 (30+27.8=57.8)	1.00	57.80			0.20	0.30	3.47	
	B-4	1.00	5.80			0.15	0.30	0.26	

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Riser	17x1/2	0.30			1.50	0.150	0.57	
	Third Flait	1.00	1.90			1.50	0.175	0.50	
	Riser	7x1/2	0.30			1.50	0.150	0.23	
							Total Qty Work Done	234.01	Cum
							Reserve Qty	22.51	Cum
							Qty Limited Payable in this bill	211.50	Cum

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst. Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

First and Part

Item No: **20**

Item Name: Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges Ready mixed Cement concrete for Beams, Staircase and Roof with M-30 Second Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Second Floor Columns								
Grid A - 1 to 21	19.00	0.60			0.30	3.150	10.77	
Grid B- 1 to 21	12.00	0.60			0.30	3.150	6.80	
Grid C- 1 to 21	11.00	0.60			0.30	3.150	6.24	
Lift Column	4.00	0.45			0.20	3.150	1.13	
Grid F- 1 to 21	18.00	0.60			0.30	3.150	10.21	
Grid G- 11	1.00	0.45			0.20	3.150	0.28	
Slab Area (30+27.8=57.80)	1.00	57.80			16.80	0.150	145.65	
	1.00	5.10			1.50	0.150	1.15	
Deduction(-)								
Staircase area	-2.00	1.50			3.50	0.150	-1.58	
	-1.00	1.50			2.60	0.150	-0.59	
Duct	-1.00	0.55			1.25	0.150	-0.26	
Lift	-1.00	1.80			2.14	0.150	-0.58	
Beam								
B-1,2,3 (30+27.8=57.8)	1.00	57.80			0.20	0.300	3.47	
B-4	1.00	5.80			0.15	0.300	0.26	
B-5 & 7 (30+29.3=59.30)	2.00	59.30			0.30	0.300	10.67	
B-6	1.00	6.10			0.20	0.300	0.37	

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
B-8	1.00	3.50			0.20	0.300	0.21	
B-9	2.00	1.80			0.20	0.300	0.22	
B-10	1.00	3.00			0.20	0.300	0.18	
B-12A	1.00	0.65			0.20	0.300	0.04	
B-13	2.00	3.30			0.20	0.300	0.40	
	2.00	2.90			0.20	0.300	0.35	
B-14,15 & 14A	1.00	57.80			0.20	0.300	3.47	
B-14B	1.00	57.80			0.15	0.300	2.60	
B-16	1.00	15.05			0.20	0.300	0.90	
B-16A	1.00	4.70			0.20	0.300	0.28	
B-17	1.00	15.05			0.30	0.300	1.35	
B-18	7.00	15.05			0.30	0.300	9.48	
B-18A	5.00	15.05			0.30	0.300	6.77	
B-19	1.00	15.05			0.30	0.300	1.35	
B-20	1.00	15.05			0.30	0.300	1.35	
B-21	2.00	2.85			0.15	0.300	0.26	
B-22	1.00	6.60			0.20	0.300	0.40	
B-23	1.00	2.54			0.20	0.300	0.15	
B-24	1.00	15.05			0.30	0.300	1.35	
B-25	1.00	7.80			0.30	0.300	0.70	
B-26	1.00	15.05			0.20	0.300	0.90	
Stair case Concrete								
Midlanding Beam(300x450)	1.00	6.10			0.30	0.450	0.82	
First Flait	1.00	2.40			1.50	0.175	0.63	
Landing	1.00	1.70			1.50	0.175	0.45	
Second Flait	1.00	2.70			1.50	0.175	0.71	
Landing	1.00	1.65			1.50	0.175	0.43	
Riser	17x1/2	0.30			1.50	0.150	0.57	
Third Flait	1.00	1.90			1.50	0.175	0.50	

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Riser	7x1/2	0.30			1.50	0.150	0.23	
						Total Qty Work Done	231.23	Cum
						Reserve Qty	42.23	Cum
						Qty Limited Payable in this bill	189.00	Cum

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst.Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet
First and Part

Item No: 23

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for Foundation , footing , bases of columns for mass concrete including cost of all materials, labour complete as per specifications.

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Footing side								
Grid A - 1 to 21 (30+29.1)	1.00	59.10				0.475	28.07	
(30+26.6= 56.6)	1.00	56.60				0.475	26.89	
Grid B - 2,4,6,8,16,18,20	28.00	1.50				0.350	14.70	
3,5,7,10,14,17,19	14.00	2.50				0.525	18.38	
	14.00	2.30				0.525	16.91	
9, 15	4.00	2.30				0.475	4.37	
	4.00	2.10				0.475	3.99	
12,	2.00	2.70				0.575	3.11	
	2.00	2.50				0.575	2.88	
Grid C - 2,4,6,8,16,18,20	28.00	2.10				0.475	27.93	
3,5,7,10,14,17,19	14.00	3.10				0.675		
	14.00	2.90				0.675	27.41	
9,15	4.00	2.90				0.600	6.96	
	4.00	2.70				0.600	6.48	
Grid F - 1 to 21(30+29.1=59.10)	1.00	59.10				0.575	33.98	
30+26.6=56.60	1.00	56.60				0.575	32.55	
Grid A & E 1	1.00	16.90				0.575	9.72	
	1.00	11.74				0.575	6.75	
Grid A & E 21	1.00	16.90				0.575	9.72	
	1.00	11.74				0.575	6.75	

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Lift Pit	2.00	2.87				0.575	3.29	
	1.00	3.35				0.575	1.93	
Pedestal								
Grid B - 2,4,6,8,16,18,20	14.00	0.53				2.400	17.64	
	14.00	0.53				2.400	17.81	
Grid B- 3,5,7,9,10,14,15, 17,19	18.00	0.53				2.225	21.03	
	18.00	0.75				2.225	30.04	
Grid - B-12	2.00	0.53				2.175	2.28	
	2.00	0.75				2.175	3.26	
Grid C - 2,4,6,8,16,18,20	14.00	0.53				2.275	16.72	
	14.00	0.53				2.275	16.88	
Grid C - 3,5,7,10,14,17,19	14.00	0.53				2.075	15.25	
	14.00	0.75				2.075	21.79	
9 & 15	4.00	0.53				2.150	4.52	
	4.00	0.75				2.150	6.45	
						Total Qty Work Done	**495.69**	**Sqm**
						Qty Limited Payable in this bill	**495.69**	**Sqm**

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Contractor Representative

CMC QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

Asst Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

First and Part

Item No: **24**

Item Name: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Retaining wall (below plinth)								
Grid A - 1 to 21 (30+27.8=57.8)	1x1	57.80				2.28	131.50	
(30+27.4=57.40)	1x1	57.40				2.28	130.59	
Columns	17x2	0.40				2.28	30.94	
Grid F 1 to 21	1x1	57.80				2.18	125.72	
	1x1	57.40				2.18	124.85	
Columns	16x2	0.40				2.18	27.84	
Grid A & G 1	1x1	15.00				2.18	32.63	
	1x1	14.60				2.18	31.76	
Columns	2x2	0.10				2.18	0.87	
Grid A & G 21	1x1	15.00				2.18	32.63	
	1x1	14.60				2.18	31.76	
	2x2	0.10				2.18	0.87	
Lift walls	2.00	2.60				2.18	9.31	
	2.00	2.14				2.18	9.57	
	2.00	2.20				2.18	7.83	
	2.00	1.80						
Retaining wall (Above plinth)						2.55	294.78	
Grid - F - 1 to 21	2.00	57.80				0.60	-28.80	
Deductions : Ventilators	2x16	1.50						

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Columns	18.00	0.30				2.55	-13.77	
							Total Qty Work Done	992.15	Sqm
							Qty Limited Payable in this bill	992.15	Sqm

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Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

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Asst. Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

First and Part

Item No: 25

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam haunching cantilever girders, breastumers & lintels & not exceeding 1.0 m depth including cost of all materials, labour complete as per specifications. - Ground Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Plinth beam								
Grid - A - 1 to 21	1x1	57.80				0.45	26.01	
	1x17	2.90				0.45	22.19	
	1x1	2.80				0.45	1.26	
Grid - P - 1 to 21	1x1	57.80				0.45	26.01	
	1x15	2.90				0.45	19.58	
	1x1	2.80				0.45	1.26	
	1x1	6.10				0.45	2.75	
Grid - B	2x17	2.90				0.45	44.37	
	2x1	2.80				0.45	2.50	
Grid - C	2x15	2.90				0.45	39.15	C/F
	2x1	2.80				0.45	2.52	
	2x1	6.10				0.45	5.49	
Grid - A & P - 3,5,7,9,10,14,15,17,	2x9	14.30				0.45	115.83	
Grid - A & B - 2,4,6,8,16,18,20	2x7	2.60				0.45	16.38	
Grid - 12	1x2	2.30				0.45	2.07	
Grid - C & P - 2,4,6,8,16,18,20	2x7	5.60				0.45	35.28	
Grid - A & P - 1	1x2	14.30				0.45	12.87	
Grid - A & P - 21	1x2	14.30				0.45	12.87	
Grid - C & G - 11	1x2	6.40				0.45	5.76	
Grid - C & G - 11 to 14	2x3	3.50				0.45	9.45	
Base	1.00	520.100				0.20	104.02	

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
Base	1.00	376.800				0.30	113.04	
Ground Floor beams								
B (1, 2 & 3)	1x1	57.800				0.45	26.01	
	1x1	52.300				0.30	15.69	
B-5	2x1	52.300				0.30	31.38	
	1x1	1.500				0.45	0.68	
	1x1	1.350				0.30	0.41	
B-7	1x1	52.300				0.30	15.69	
	1x1	1.500				0.45	0.68	
	1x1	1.350				0.30	0.41	
	1x1	51.900				0.30	15.57	
B-8	1x1	3.500				0.30	1.05	
	1x1	3.300				0.30	0.99	
B9	1x2	1.800				0.45	1.62	
	1x2	1.900				0.45	1.71	
B-11	1x2	26.200				0.30	15.72	
B-12	1x2	20.300				0.30	12.18	
B(14,14A and 15)	1x2	52.600				0.30	31.56	
B-14B	1x1	57.800				0.45	26.01	
	1x1	52.300				0.30	15.69	
B-16 & 16A	1x2	16.200				0.45	14.58	
	1x2	15.050				0.30	9.03	
	1x2	4.700				0.30	2.82	

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CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
Land Mark		(m)	(m)	(m)	(m)	(m)		
B-17	1x2	15.050				0.30	9.03	
B-18 & 18-A	2x12	15.050				0.30	108.36	
B-19	1x2	15.050				0.30	9.03	
B-20	1x2	15.050				0.30	9.03	
B-22	1x1	6.100				0.30	1.83	
	1x1	5.500				0.45	2.48	
B-23	1x1	2.570				0.45	1.16	
	1x1	2.170				0.30	0.65	
B-24A	1x2	0.650				0.30	0.39	
B-25	1x2	7.800				0.30	4.68	
B-24	1x2	15.050				0.30	9.03	
						Total Qty Work Done	1015.77	Sqm
						Reserve Qty	3.77	Sqm
						Qty Limited Payable in this bill	1012.00	Sqm

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Contractor Representative

TOTAL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagara Division (Project)

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Assistant Executive Engineer
RR Nagara Division (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

First and Part

Item No: **26**

Item Name: Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - First Floor

CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
First Floor beams								
B (1, 2 & 3)	1x1	57.800				0.45	26.01	
	1x1	52.300				0.30	15.69	
B-4	1x2	5.800				0.30	3.48	
B-5	2x1	52.300				0.30	31.38	
	1x1	1.500				0.45	0.68	
	1x1	1.350				0.30	0.41	
B-7	1x1	52.300				0.30	15.69	
	1x1	1.500				0.45	0.68	
	1x1	1.350				0.30	0.41	
	1x1	51.900				0.30	15.57	
B-8	1x1	3.500				0.30	1.05	
	1x1	3.300				0.30	0.99	
B9	1x2	1.800				0.45	1.62	
	1x2	1.900				0.45	1.71	
B10	2x2	3.050				0.30	3.66	
B-11	1x2	26.200				0.30	15.72	
B-12	1x2	20.300				0.30	12.18	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನ
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವ

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
B-13	2x2	3.300				0.30	3.96	
	2x2	2.900				0.30	3.48	
B(14,14A and 15)	1x2	52.600				0.30	31.56	
B-14B	1x1	57.800				0.45	26.01	
	1x1	52.300				0.30	15.69	
B-16 & 16A	1x2	16.200				0.45	14.58	
	1x2	15.050				0.30	9.03	
	1x2	4.700				0.30	2.82	
B-17	1x2	15.050				0.30	9.03	
B-18 & 18-A	2x12	15.050				0.30	108.36	
B-19	1x2	15.050				0.30	9.03	
B-20	1x2	15.050				0.30	9.03	
B-21	2x2	2.850				0.30	3.42	
B-22	1x1	6.100				0.30	1.83	
	1x1	5.500				0.45	2.48	
B-23	1x1	2.570				0.45	1.16	
	1x1	2.170				0.30	0.65	
B-24A	1x2	0.650				0.30	0.39	
B-25	1x2	7.800				0.30	4.68	

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CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
B-24	1x2	15.050				0.30	9.03	
						Total Qty Work Done	413.12	Sqm
						Qty Limited Payable in this bill	413.12	Sqm

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮುಖ್ಯನಗರ
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer

RR Nagara Division (Project)

Asst Executive Engineer

RR Nagara Division (Project)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮುಖ್ಯನಗರ ಪಾಲಿಕೆ
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ

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